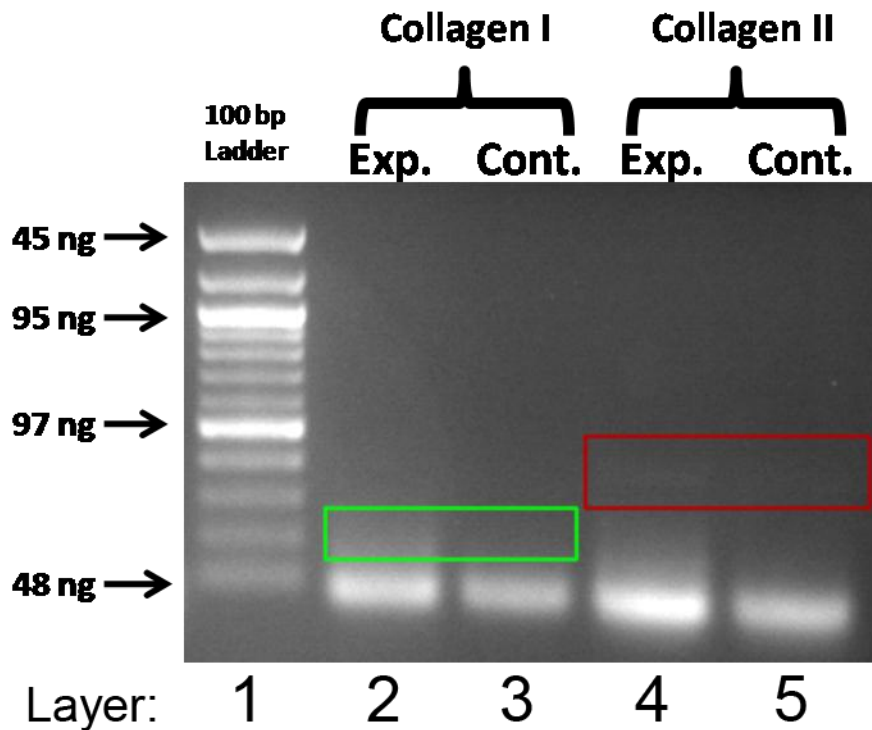


**Figure 1: Experimental setup for linear uniform magnetic field.** The magnetic field was induced through a Helmholtz coil setup, creating a field running vertically between the coils. Each coil was oriented in the same direction with 12 loops in each ring (as indicated by  $n$ ) and had a radius of 50 mm. 6 A was run through the system, generating a B-field of  $\sim 0.013$  T. The cells were positioned at 30 mm above the bottom coil and below the top coil.



**Figure 2: Agarose gel RT-PCR transcript analysis for collagen I and II.** Collagen I and II alpha chain transcripts were amplified through RT-PCR and the cDNA products were assayed on a 1.2% agarose gel. Collagen I and II concentrations were evaluated by analysis of band intensity, and normalized by the intensity of a common housekeeping gene also amplified through RT-PCR, GAPDH. For collagen I, whose band position is indicated by the green box, no significant values were determined, as the GAPDH bands smeared and very little collagen I, if any, was present. For collagen II, indicated by the red box, the experimental sample in Lane 4 showed a small increase in collagen II production over the control sample in Lane 5. The normalized intensity ratios of collagen II over GAPDH against area, with background subtracted, was 0.055 for experimental and 0.050 for control, indicating some increase in collagen II production in the experimental sample.